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The Files

27 June 1958

Contract RD-103, Task Orders 2, 3, 8 and 10

1. A conference was held with representatives of the [redacted] in the R&D-EP office 19 June 1958. The purpose of the meeting was to discuss engineering details of Contract RD-103, Tasks 2, 3, 8 and 10. Present part-time or wholly at this conference were:

2. [redacted] visited [redacted] 18 June 1958, to observe the RS-16A tests from [redacted] to Press Wireless at Los Angeles. Following the test, [redacted] assisted by [redacted] inspected the AS-4 receive terminal at [redacted]. [redacted] found that the power supply voltages were being operated considerably above the normal rating. The voltages were adjusted to their rated value, then other level adjustments throughout the terminal were adjusted for optimum operation. The condition of this terminal led to a discussion of testing and servicing of the AS-4 and AS-4A at the 19 June conference. The opinion was expressed that extensive contractor tests prior to delivery of the equipment would be beneficial. In addition, field engineering support after delivery might well be a future requirement. A solution to the field support problem can be achieved by the establishment of a field service section of high level technicians within the Engineering Division.

3. The [redacted] has requested that antenna tests be made in connection with the AS-6 development the first week of July, to test the feasibility of using horizontal antennas placed near the ground. Plans are being made to transmit CW signals from a 35-40 foot long wire antenna to a receiver at Los Angeles. Field strength measurements will be made at the receiving site. Further information concerning the signals to be supplied from the collector unit to the communications unit and vice versa were obtained for the [redacted] representatives. The collector signals will be 20 microseconds wide and 5 volts high working into a 2,000 ohm load. The clock pulse level required by the collector should be from 3-7 volts. A third meeting of the two contractors is being planned for late July 1958.

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4. The ten service models, RS-16A sets, being fabricated by the contractor will be designed to eliminate the requirement for special crystals. A 75° oven is to be used in place of the present 50° oven. The stepping oscillators are to be fed to a mixer and then the output will be doubled. This reduces the crystal frequency requirement to less than 15 mc. Standard crystals can then be employed.

25X1

OC-E/R&D-EP/PCV:wlj (27 June 1958)

cc: R&D Subject File

Task Order 3

" " 8

E* " 10

Monthly Report (2)

R&D Lab

R&D Chrono

EP Chrono

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